PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
NIS-1176-PCT International application No.	International filing date (day/month	//year) (Earliest) Priority Date (day/month/year)
PCT/JP2004/017901	25/11/2004	02/12/2003
Applicant Applicant		
(the second		
NISSAN MOTOR CO., LTD.		
	ansmitted to the international burea	
It is also accompanied by	y a copy of each prior art document o	ited in this report.
language in which it was filed, ur	nless otherwise indicated under this i	
this Authority (Ri	ule 23.1(b)).	of a translation of the international application furnished to
b. With regard to any nucle	eotide and/or amino acid sequenc	e disclosed in the international application, see Box No. I.
2. Certain claims were for	und unsearchable (See Box II).	
3. Unity of invention is la	cking (see Box III).	
4. With regard to the title,		
X the text is approved as s	submitted by the applicant.	
the text has been estable	lished by this Authority to read as fol	lows:
5. With regard to the abstract,		
the text is approved as	submitted by the applicant.	
	not all according to Dulo 39 3/h) hy	this Authority as it appears in Box No. IV. The applicant lational search report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be	e published with the abstract is Figur	e No
X as suggested b		toiled to suggest a figure
	this Authority, because the applican	
	this Authority, because this figure be	Siles onditations are in the siles
b. none of the figures is to	be published with the abstract.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2004/017901

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01M8/02 H01M H01M8/12 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H01M IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 1 - 6EP 1 447 869 A (HALDOR TOPSOE A/S) P,X 18 August 2004 (2004-08-18) figures 1-4 1 - 6DE 100 38 589 A1 (HOELLER, STEFAN; KUETER, X UWE) 28 February 2002 (2002-02-28) figure 4 1 - 6US 2002/086200 A1 (MARGIOTT PAUL R) X 4 July 2002 (2002-07-04) figures 1-4 1 - 8US 6 207 312 B1 (WYNNE ROBERT KENNETH ET AL) 27 March 2001 (2001-03-27) figure 2 Patent family members are listed in annex. Further documents are listed in the continuation of box C. X Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to 'E' earlier document but published on or after the international filing date involve an inventive step when the document is taken alone *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *O* document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but *&* document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 24/03/2005 11 March 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016 Koessler, J-L

1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/017901

		PC1/0F2004/01/901		
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category °	Citation of document, with indication, where appropriate, of the relevant passages			
Y	US 5 846 668 A (WATANABE ET AL) 8 December 1998 (1998-12-08) figures 4,7,9	1-6		
Υ	US 6 146 780 A (CISAR ET AL) 14 November 2000 (2000-11-14) figure 16	1-8,11		
Υ	US 5 641 586 A (WILSON ET AL) 24 June 1997 (1997-06-24) figures 1,2	1-8		
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04, 31 May 1995 (1995-05-31) -& JP 07 029579 A (TANAKA KIKINZOKU KOGYO KK), 31 January 1995 (1995-01-31) abstract; figures 5,7	1-6		
X	WO 94/11912 A (BALLARD POWER SYSTEMS INC) 26 May 1994 (1994-05-26) figures 7-9,13	1-6		
X	PATENT ABSTRACTS OF JAPAN vol. 010, no. 082 (E-392), 2 April 1986 (1986-04-02) & JP 60 227361 A (FUJI DENKI SOUGOU KENKYUSHO:KK; others: 01), 12 November 1985 (1985-11-12)	1-8		
Υ	abstract; figure 1	11		
Υ	WILSON M S ET AL: "ALTERNATIVE FLOW-FIELD AND BACKING CONCEPTS FOR POLYMER ELECTROLYTEMEMBRANE FUEL CELLS" EXTENDED ABSTRACTS, ELECTROCHEMICAL SOCIETY. PRINCETON, NEW JERSEY, US, vol. 95/2, January 1995 (1995-01), pages 1043-1044, XP000553942 ISSN: 0160-4619 figure 1	1-6		

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/017901

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1447869		18-08-2004	CA	2457180 A1	15-08-2004
LT 144/003	^	10 00 2004	EP	1447869 A1	18-08-2004
			ĴΡ	2004247305 A	02-09-2004
 DE 10038589	 A1	28-02-2002	AU	8955101 A	18-02-2002
PF 10030303			WO	0213287 A2	14-02-2002
US 2002086200	A1	04-07-2002	 ЈР	2004523065 T	29-07-2004
03 2002000200			WO	02059988 A2	01-08-2002
US 6207312	B1	27-03-2001	_ _	5926599 A	10-04-2000
00 020,012			CA	2344377 A1	30-03-2000
			CN	1332891 A	23-01-2002
			ΕP	1116297 A1	18-07-2001
			JP	2002525824 T	13-08-2002
			WO	0017952 A1	30-03-2000
US 5846668	Α	08-12-1998	JP	3540491 B2	07-07-2004
			JP	9245819 A	19-09-1997
US 6146780	Α	14-11-2000	AU	6648198 A	18-08-1998
00 0140/00	••		DE	69826111 D1	14-10-2004
			EΡ	1484812 A2	08-12-2004
			EP	0963614 A2	15-12-1999
		•	WO	9833221 A2	30-07-1998
			US	6638657 B1	28-10-2003
US 5641586	A	24-06-1997	NONE		
JP 07029579	Α	31-01-1995	NONE		
WO 9411912	A	26-05-1994	AU	5415994 A	08-06-199
			WO	9411912 A1	26-05-199
			US 	5300370 A	05-04-199
JP 60227361	 A	12-11-1985	NONE	•	